Duraclad® Type AC





14 AWG through 2 AWG Copper Type ACTHH (THHN Singles). 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VW-1. Galvanized Steel Interlocking Armor.

APPLICATIONS

Southwire Duraclad® Type AC Cable is suitable for use as follows:

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Dry locations only.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2).

STANDARDS & REFERENCES

Southwire Armorlite ® Type AC Cable meets or exceeds the following requirements

- UL 4
- UL 83
- UL Online Product Guide Info Metal-Clad Cable (PJAZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 320
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Duraclad® Type AC Cable is constructed with soft-drawn copper, Type THHN insulated conductors which are individually wrapped with a moisture-resistant, flame-retardant paper covering. Steel interlocking armor is applied over the assembly. A 16 AWG aluminum bond wire is placed inside the armor, runs longitudinally, and is in intimate contact with the armor for its entire length.





CONDUCTOR SIZE AND	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT	OVERALL		
COLORS		COIL	REEL	(LBS/1000')	DIAMETER (INCHES)		
SOLID CONDUCTOR COLORS 120/208V							
14-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-83-01 (250')	55-27-83-02 (1000')	185	.46		
14-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-85-01 (250')	55-27-85-02 (1000')	209	485		
14-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-31-84-01 (250')	55-31-84-02 (1000')	237	.517		
12-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-49-01 (250')	55-27-49-02 (1000')	213	.498		
12-3 SOLID (BLACK/WHITE/BLUE)	16 SOLID ALUMINUM	55-27-50-01 (250')	55-27-50-02 (1000')	246	.521		
12-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-27-57-01 (250')	55-27-57-02 (1000')	283	.557		
10-2 SOLID (BLACK/WHITE)	16 SOLID ALUMINUM	55-27-82-01 (250')	55-27-82-03 (1000')	2664	.56		
10-3 SOLID (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-56-01 (250')	55-27-56-02 (1000')	312	.588		
10-4 SOLID (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-27-89-01 (250')	55-27-89-03 (1000')	366	.632		
STRANDED CONDUCTOR COLORS 120/208V							
8-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	55-33-69-01 (200')	55-33-69-03 (500')	365	.686		
8-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM		55-27-84-03 (500')	556	.834		
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-71-03 (500')	653	.895		
6-2 STRANDED (BLACK/WHITE)	16 SOLID ALUMINUM	55-33-67-01 (100')	55-33-67-03 (500')	574	.868		
6-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-27-59-02 (125')	55-27-59-03 (500')	696	.912		
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM	55-33-68-01 (100')	55-33-68-03 (500')	830	.981		
4-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM	55-28-03-01 (100')	55-28-03-03 (500')	948	1.07		
4-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-66-03 (500')	1150	1.15		
2-3 STRANDED (BLACK/WHITE/RED)	16 SOLID ALUMINUM		55-27-93-03 (500')	1265	1.19		
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	16 SOLID ALUMINUM		55-33-65-03 (500')	1559	1.293		
Refer to NEC Table 310.15 for ampacity ratings.							

FEATURES

- An armor assembly (combination of the interlocked armor & bonding strip) that is recognized as an equipment grounding/bonding conductor per NEC 250.118(8).
- Reduces installation costs up to 50% over pipe and wire.
- UL Classified 1, 2, and 3 hour Through Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038.
- Anti-short/insulating bushings supplied with every reel or coil.
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation.



NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

	TEMPERATURE RATING OF CONDUCTOR					
	60°C (140°F)	75°C (167°F)	90°C (194°F)			
SIZE AWG OR KCMIL	Types: TW, UF	Types: RHW, THHW, THW, THWN, XHHW, USE, ZW	Types: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW-2, THWN- 2, USE-2, XHH, XHHW, XHHW-2, ZW-2			
	COPPER					
18	-	-	14			
16	-	-	18			
14	15	20	25			
12	20	25	30			
10	30	35	40			
8	40	50	55			
6	55	65	75			
4	70	85	95			
3	85	100	115			
2	95	115	130			
1	110	130	145			
1/0	125	150	170			
2/0	145	175	195			
3/0	165	200	225			
4/0	195	230	260			
250	215	255	290			
300	240	285	320			
350	260	310	350			
400	280	335	380			
500	320	380	430			
600	350	420	475			
700	385	460	520			
750	400	475	535			
800	410	490	555			
900	435	520	585			
1000	455	545	615			
1250	495	590	665			
1500	525	625	705			
1750	545	650	735			
2000	555	665	750			
Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a						

Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

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